Ontario Ministry of Northern Development and Mines

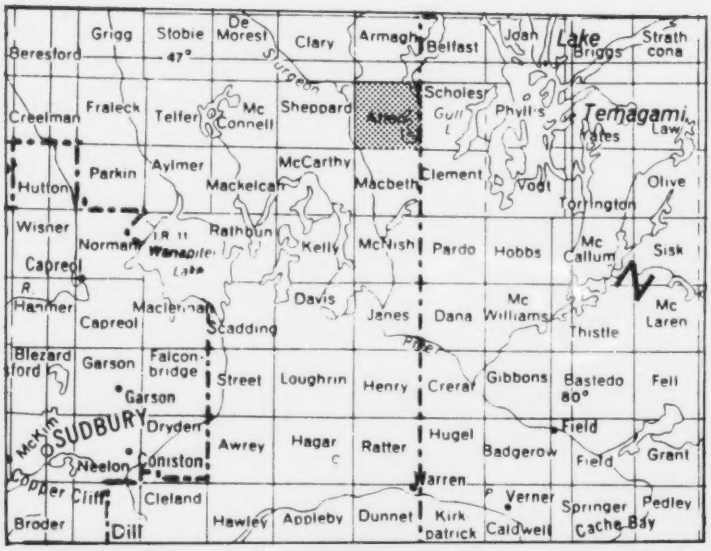
Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO **458**

AFTON TOWNSHIP

Compiled by the Staff of
the Resident Geologist's Office
Sudbury



LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles

CANADA ONTARIO Mineral Development Exploitation Minerale

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

90-01086/

NTS Number 41 I/16

Mining Claim Map Number G 2900

This project is part of the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1989: Afton Township, Ontario Geological Survey, Data Inventory Folio **458**, compiled by the staff of the Resident Geologist's Office, Sudbury; **39** pages and 2 Maps.

Original Compilation by: Jerome, Lucille, January, 1988

Date	Page Revised	Revised by

Date	Page Revised	Revised by

TABLE OF CONTENTS

Data Sources Checklist 1
Metals and Minerals Reference List 2
Mineral Occurrences 3
Type of Work 4-10
Drill Hole Summary 11-23
Airborne Geophysical Survey Data 24
Geochemical Survey Data 25
Miscellaneous Data 26
Newspaper Clipping File 27-29
ODM General Index Search 30-34
Selected References 35-37
Notes and Addenda 38

ACCOMPANYING MAPS

Property Location Map 1 map

Exploration Data Map 1 map

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	L. J.
2	Assessment Files Research Office, Toronto	N.A.	L. J.
3	ODM General Index; 9 Volumes	Yes	L. J.
4	Catalogue of Airborne Geophysical Surveys (ODM)	Yes	L. J.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	L. J.
6	ODM Industrial Mineral Reports	No	L. J.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	L. J.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	L. J.
9	Newspaper Clippings File	Yes	L. J.
10	GSC Index to Publications	Yes	L. J.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	L. J.
12	OGS Index Maps	Yes	L. J.
13	Source Mineral Deposit Records (O.G.S.)	Yes	L. J.
14	Author - Subject Articles File	Yes	L. J.
15	Miscellaneous Papers: ODM & OGS	Yes	L. J.
16	ODM Geological Circulars: OGS Study Series	No	L. J.
17	ODM Preliminary Reports: ODM Bulletins	No	L. J.
18	ODM – OGS Open File Reports	Yes	L. J.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	L. J.
20	OGS Aggregate Resources Inventory Papers	No	L. J.
21	OGS Mineral Potential Maps	Yes	L. J.
22	Theses on File, Sudbury	No	L. J.
23	Aerial Photographs on File, Sudbury	No	L. J.

METALS AND MINERALS REFERENCES LIST

- △ anh. . . . . Anhydrite
- △ ank. . . . . Ankerite
- △ anna . . . . . Annabergite
- △ ap. . . . . Apatite
- △ arg . . . . . Argentite
- △ As . . . . . Arsenic
- △ asp . . . . . Arsenopyrite
- △ asb . . . . . Asbestos
- △ ba. . . . . Barite
- △ be. . . . . Beryl
- △ Bi. . . . . Bismuth
- △ bn . . . . . Bornite
- △ bran . . . . . Brannerite
- △ bruc . . . . . Brucite
- △ Cd . . . . . Cadmium
- △ calc. . . . . Calcite
- △ carb . . . . . Carbonate
- △ cel . . . . . Celestite
- △ cc. . . . . Chalcocite
- ▲ cp. . . . . Chalcopyrite
- △ ch. . . . . Chert
- △ clay . . . . . Clay
- ▲ Co . . . . . Cobalt
- △ cob. . . . . Cobaltite
- △ cb. . . . . Columbite
- ▲ Cu . . . . . Copper
- △ cor . . . . . Corundum
- △ dol . . . . . Dolomite
- △ ep. . . . . Epidote
- △ ery . . . . . Erythrite
- △ fel . . . . . Feldspar
- △ fl . . . . . Fluorite (flurospar)
- △ fu. . . . . Fuchsite
- △ gn. . . . . Galena
- △ gt . . . . . Garnet
- △ goe . . . . . Goethite
- ▲ Au . . . . . Gold
- △ gf . . . . . Graphite
- △ gl . . . . . Gravel
- △ gyp. . . . . Gypsum
- △ hem . . . . . Hematite
- △ il . . . . . Ilmenite
- ▲ Fe . . . . . Iron
- △ IF. . . . . Iron Formation
- △ jas . . . . . Jasper
- △ kaol . . . . . Kaolinite (kaolin)
- △ ky . . . . . Kyanite
- △ Pb . . . . . Lead
- △ lim . . . . . Limonite
- △ Li. . . . . Lithium
- △ mgst . . . . . Magnesite
- △ mag . . . . . Magnetite
- △ mc . . . . . Malachite
- △ Mn . . . . . Manganese
- △ mb . . . . . Marble
- △ mar. . . . . Marcasite
- △ ma . . . . . Marl
- △ mi . . . . . Mica
- △ ml . . . . . Millerite
- △ mo . . . . . Molybdenite
- △ Mo . . . . . Molybdenum
- △ mon . . . . . Monazite
- △ ne. . . . . Nephelite (nepheline)
- △ nc. . . . . Niccolite
- △ Ni. . . . . Nickel
- △ Nb . . . . . Niobium
- △ Pd . . . . . Palladium
- △ peat . . . . . Peat
- △ pent . . . . . Pentlandite
- △ Pt. . . . . Platinum
- △ py . . . . . Pyrite
- △ pyl . . . . . Pyrochlore
- △ pyrl . . . . . Pyrolusite
- ▲ po . . . . . Pyrrhotite
- △ q . . . . . Quartz
- ▲ qcv . . . . . Quartz carbonate vein
- △ ra. . . . . Radioactive minerals
- △ RE . . . . . Rare Earths
- △ sd. . . . . Sand
- △ sgl . . . . . Sand and gravel
- △ ss . . . . . Sandstone
- △ scap . . . . . Scapolite
- △ shee . . . . . Scheelite
- △ serp . . . . . Serpentine
- △ sh. . . . . Shale
- △ sid . . . . . Siderite
- △ si . . . . . Silica
- ▲ Ag . . . . . Silver
- △ sl . . . . . Slate
- △ sm . . . . . Smaltite
- △ sod . . . . . Sodalite
- △ spec . . . . . Specularite
- △ sp. . . . . Sphalerite
- △ spd . . . . . Spodumene
- △ staur . . . . . Staurolite
- △ stib. . . . . Stibnite
- △ st . . . . . Stone
- △ talc. . . . . Talc
- △ Te . . . . . Tellurium
- △ td. . . . . Tetrahedrite
- △ th. . . . . Thorite
- △ Th . . . . . Thorium
- △ thuc . . . . . Thucholite
- △ ti . . . . . Titanite
- △ Ti. . . . . Titanium
- △ tour . . . . . Tourmaline
- △ trap . . . . . Trap rock
- △ W. . . . . Tungsten
- △ uran . . . . . Uraninite
- △ U . . . . . Uranium
- △ verm . . . . . Vermiculite
- △ Y . . . . . Yttrium
- ▲ Zn . . . . . Zinc
- △ zr . . . . . Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Afton Township Occurrence, Leger, L. (1962)	Au, Ag	available	--	GR 170, pp. 53-54 Afton (0015-B1)
B	Emerald Lake Prospect, Wabico Mines Ltd., X-Ray Prospecting Syndicate	Cu, Au, Ag, Zn, Co	Cu 1	MRC 12, p. 229 MRC 2, p. 102	GR 170, p. 67 Afton (0024-A1)
C	West Quartz Showing, Plum Creek Occurrence, Dominion Gulf Co., Temex Mines Ltd.	qcv, cp	available	MRC 12, p. 272	O.D.M. Map P.367 Afton (0019), Afton (0018-C1)
D.	Abex Mines Ltd.	po, cp	available	--	GR 170, p. 49 O.D.M. Map P.367, Afton (0020-A1)
E	Emerald Lake Prospect	Fe	available	MRC 11, p. 324	GR 170, p. 59, O.D.M. Map P.367 O.D.M. AR Vol. 45, pt. 6, p. 40
F	New Golden Rose Mines	Au	Au 1	MDC 18, p. 48	GR 170, pp. 46-48 O.D.M. Map P. 367 O.D.M. AR Vol. 45, pt. 6, pp.46-48
G	Church, T. M.	Cu	available	--	GR 170, p. 59
H	East Quartz Showing Dominion Gulf Co.	qcv, cp	available	--	Afton (0019)

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
1	Aumacho River Mines Ltd. (Afton 0010-A1)				57															
2	Aumacho River Mines Ltd. (Afton 0016-B1)	56																		
3a	Church, T. M. (Afton 0013-D1)			50	50															
3b	Abex Mines Ltd. (Afton 0011-A1)				53															
4	Church, T. M. (Afton 0013-D1)			50	50															
5	Church, T. M. (Afton 0013-D1)			50																
6	Leger Mines Ltd. (Afton 0015-B1)							64												
7	Dominion Gulf Co. (Afton 0010-C1)				48															
8	Dominion Gulf Co. (Afton 0019)	48			48				47			48								
9	Dominion Gulf Co. (Afton 0019)	48																		

AFTON TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
10	Joburke Gold Mines Ltd. (Afton 0010-B1)				61															
11	Geoscientific Prospectors Ltd. (Afton 0010-D1)				56															
12	Geoscientific Prospectors Ltd. (Afton 0010-D1)				56															
13 a	Geoscientific Prospectors Ltd. (Afton 0013-A1)				56															
13 b	Abex Mines Ltd. (Afton 0023-A1)	51										51	51							
13 c	Consolidated Mining & Smelting Co. of Canada Ltd. (Afton 0014)				28-30 34-41															
13 d	Golden Rose Mining Co. Ltd. (Afton 0021-B1)							44												

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		GEOLOGICAL	GEOCHEMICAL	TRENCHING STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	PRODUCTION	GEOCHEMICAL	
COMPANY/AUTHOR (file number)																				
13 e	Golden Rose Mine (Emerald Lake Resources Inc., Highland Crow Resources Inc., New Golden Rose Mines Ltd., Consolidated Mining & Smelting Co. of Canada Ltd., Afton Mines Ltd., Golden Rose Mining Co. Ltd.)			15-16 35-41	27-28 82-85		15-16 27-28 35-41 82-87											15-16 37-41 87[1]		
14 a	Wabico Mines Ltd. (Afton 0015-A1)	63										62								
14 b	Wabico Mines Ltd. (Afton 0017-C1)							56												
14 c	Wabico Mines Ltd. (Afton 0017-A1)	56														56			56[2]	
15	Wabico Mines Ltd. (Afton 0013-C1)				62															
16	Wabico Mines Ltd. (Afton 0017-C1)							56												
17	Wabico Mines Ltd. (Afton 0017-A1)															56	56			

GDIF FORM NO. 2

AFTON TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
18 a	Wabico Mines Ltd. (Afton 0012)				56															
18 b	Abex Mines Ltd. (Afton 0011-A1)				53 54															
19	X-Ray Prospecting Syndicate (Afton 0024-A1)			46	46[3]							47								
20	Temex Mines Ltd. (Afton 0018-C1)							56												
21	New Athona Mines Ltd. (Afton 0018-A1)											56								
22 a	Abex Mines Ltd. (Afton 0020-A1)	51		51																
22 b	Emerald Mining Syndicate (Afton 0021-A1)	50										50								
23	Abex Mines Ltd. (Afton 0011-C1)				53															
24	Abex Mines Ltd. (Afton 0016-A1)	52										52				52				

GDIF FORM NO

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
25	Abex Mines Ltd. (Afton 0022-A1)	53										53								
25	Abex Mines Ltd. (Scholes 0026-C1)							56												
26	Abex Mines Ltd. (Afton 0022-A1)															53				
26	Abex Mines Ltd. (Afton 0011-A1)				53															
27	Abex Mines Ltd. (Afton 0022-A1)																53			
28	Abex Mines Ltd. (Afton 0023-A1)	51										51	51							
29	Emerald Lake Resources Inc. (Afton 0025)								86	86										

---

[1] Shaft 749'
Production: mill 400 tpd

[2] No anomaly

AFTON TOWNSHIP

TYPE OF WORK	Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE / COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
[3] No logs																			

GDIF FORM NO. 2

| TYPE OF WORK | | Numbers below represent the year in which the work was done;e.g., 68 for 1968. | | |

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
1	Aumacho River Mines Ltd.	1	1957	?	58	0	68	py	
1		2	1957	?	55	0	29	mineralization	
1		3	1957	?	41	0	63		
2	Church, T. M.	XRL 5	1950	180	45	0	141	cp	
2		XRL 6	1950	180	56	0	18		
2		XRL 7	1950	180	56	5	61	cp, po	
3		XRL 8	1950	090	50	0	128	cp, po, py	
4		XRL 9	1950	180	45	0	142.5	cp, po, py	
5	Dominion Gulf Co.	3	1948	170	50	8	344	ep	
6		4	1948	350	45	9	242	py	
7		5	1948	?	?	5	378	ep, cp, py, il	Au
8		1	1948	170	61	15	1263	cp, py, po	
9		2	1948	0	90	9	1298	py,hem,cp,ep,po	
10	Joburke Gold Mines Ltd.	1	1961	300	45	0	101	--	
10		2	1961	005	45	0	117	--	
10		3	1961	010	45	0	105	--	
10		4	1961	017	45	0	105	--	
10		5	1961	010	45	0	108	--	
10		6	1961	020	45	0	105	--	
11	Geoscientific Prospectors Ltd.	EM-1	1956	360	60	36	600	py, cp	
12		EM-2	1956	--	90	75	135		
13		EM-8	1956	180	80	30	2519	py,cp,po,mag,ep	
14		EM-3	1956	360	46	9	922	py, cp	
14		EM-4	1956	?	46	4	575	py, cp, mag	
14		EM-5	1956	008	46	9	551	py, cp, mag	
14		EM-6	1956	008	46	8	486	py, cp, mag	
14		EM-7	1956	?	45	26	500	py, cp, mag	

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
15	Consolidated Mining &	1	1928	360	50	0	730	py, jas	
15	Smelting Co. of Canada Ltd.	3	1928	360	50	0	573	py, jas	Au
15		4	1929	?	30	16	199	py, cp, mag	Au
15		5	1929	?	45	4	229	py, mag	Au
15		6	1929	?	35	8.6	256	py, mag, jas	Au
15		7	1930	?	37	7	316	py, mag, jas	Au
15		8	1934	342	49	10.5	626	py, mag, ank	Au
15		9	1934	?	55	12	915	py,mag,ank,jas	Au
15		10	1934	135	30	2	150	--	
15		11	1934	007?	50	4	604	py,jas,cp,ank	Au,Ag,Cu
15		12	1934	338	70	5.7	484	cp, ank	
15		13	1935	?	55	0	37.5	--	
15		14	1935	?	?	0	32	--	
15		15	1935	?	65	0	37	--	
15		16	1935	?	50	0	53	--	
15		17	1935	?	30	0	49	--	
15		18	1935	?	75	0	91.5	--	
15		19	1935	?	60	0	74	--	
15		20	1935	?	55	0	44	--	
15		21	1935	?	60	0	50.5	--	
15		22	1935	?	50	0	41.5	--	
15		23	1935	?	75	0	30.5	--	
15		24	1935	?	50	0	101.5	--	
15		25	1935	?	50	0	120.7	--	
15		26	1935	?	50	0	46	--	
15		27	1935	?	50	0	15.8	--	
15		32	1935	155	3	0	148	mag, jas, py	Au
15		33	1935	161	3	0	103	mag,jas,ank,cp,py	Au
15		34	1935	156	3	0	29	py, mag, jas	Au
15		35	1935	156	3	0	102	py,mag,jas,ank	Au

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
15	Consolidated Mining &	36	1935	156	3	0	131	py,mag,jas,ank	Au
15	Smelting Co. of Canada Ltd.	37	1935	161	3	0	138	py,mag,jas,ank	Au
15	(cont'd)	38	1935	161	3	0	165	py, mag, jas	Au
15		39	1935	161	1	0	106.5	py,mag,jas,Au	Au
15		40	1935	158	5	0	143	py,mag,jas,ank	Au
15		41	1935	180	3	0	98	py,mag,jas,ank	Au
15		42	1935	360	90	0	13.2		
15		43	1936	162	3	0	62	py, mag, ank	Au
15		44	1936	160	3	0	81.5	py, mag, ank	Au
15		45	1936	160	1	0	100	py, mag	Au
15		46	1936	167	4	0	94	py,mag,po,ank	Au
15		47	1936	?	3	0	90.5	py,mag,jas,ank	Au
15		48	1936	--	90	0	304	py,mag,jas,ank	Au
15		49	1936	--	90	0	304	py,mag,jas,ank	Au
15		50	1936	348	85	0	105	py, mag	Au
15		51	1936	348	69	0	139.5	py, mag, ank	Au
15		52	1936	163	39	0	53.5	py,mag,ank,jas	Au
15		53	1936	338	71	0	90	py, mag	Au
15		54	1936	157	40	0	180	py,mag,jas,ank	Au
15		55	1936	160	38	0	125.3	py, mag, ank	Au
15		56	1936	?	73	4.1	300	py, mag,jas	Au
15		57	1936	362	76	3	295	py,mag,jas,ank	Au
15		58	1936	180	0	0	54	mag, jas	
15		59	1936	135	20	0	63	calc	
15		64	1937	162	62	0	7	py, mag, jas	Au
15		65	1937	162	46	0	56.7	py,mag,jas,ank	Au
15		66	1937	160	61	0	86	py,mag,jas,ank	Au
15		67	1937	161	67	0	61	py,jas,ank	Au
15		68	1937	--	90	0	55	py, ank	Au
15		69	1937	161	57	0	23	py	Au
15		70	1937	161	60	0	55	py	Au
15		71	1937	343	34	0	101	py,mag,jas,ank, Au	Au

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
15	Consolidated Mining &	72	1937	340	45	0	62.3	py	Au
15	Smelting Co. of Canada Ltd.	73	1937	171	46	0	57	py,mag,jas,ank	Au
15	(cont'd)	74	1937	340	48	0	89	py, mag, Au	Au
15		75	1937	045	0	0	120	py, po	Au
15		76	1937	344	64	0	61	py, mag, jas	Au
15		77	1937	045	0	0	120	--	--
15		78	1937	197	33	0	58	py, mag, jas	Au
15		79	1937	360	?	0	101	--	--
15		80	1937	185	45	0	64	py,mag,jas,ank	Au
15		81	1937	360	?	0	80	--	--
15		82	1937	160	41	0	36	py,mag,jas,ank	Au
15		83	1937	360	?	0	70	--	--
15		86	1937	186	43	0	79	py	Au
15		88	1937	171	54	0	32	py, mag, jas	Au
15		90	1937	153	55	0	39	py,mag,jas,ank	Au
15		91	1937	161	60	0	55	py, ank	Au
15		92	1937	154	60	0	74	py	Au
15		93	1937	157	60	0	118	py	Au
15		94	1937	148	52	0	65	py, po	Au
15		95	1937	129	72	0	22	py	Au
15		96	1937	346	45	0	120	py,mag,jas,po	Au
15		97	1937	043	66	0	28	py,mag,jas,ank	Au
15		98	1937	162	45	0	99	py	Au
15		99	1938-39	147	38	0	94	py,mag,jas,ank	Au
15		100	1938	168	40	0	52.5	py, ank	Au
15		101	1938	345	72	0	39	py	Au
15		102	1938	150	39	0	52	py, ank	Au
15		103	1938	148	41	0	27	py, ank	Au
15		104	1938	168	43	0	78.5	py	Au
15		105	1938-39	345	59	1.5	386.5	py, mag,jas,cp	Au
15		106	1938	344	42	0	45	py, po	Au
15		107	1938	164	42	0	25.5	py	Au
15		108	1938	344	38	3	50.5	py, cp	Au

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
15	Consolidated Mining &	109	1938	001	49	1.5	68.5	py	Au
15	Smelting Co. of Canada Ltd.	110	1938	340	38	0	112	py	Au
15	(cont'd)	111	1938	161	38	0	43	py	Au
15		112	1938	351	65	2.5	154	py, ank, po	Au
15		113	1938	185	16	0	49	py, ank	Au
15		114	1938	161	36	0	83.3	py, ank	Au
15		115	1938	327	45	0	63	py, po	Au
15		116	1938	147	45	0	35	py, ank	Au
15		117	1938	340	0	0	99	py, ank	Au
15		118	1938	340	60	3	271	py, ank	Au
15		119	1938	341	68	2	332	py, ank	Au
15		120	1938	339	66	4.4	300	mag, jas, ank, po, py	Au
15		121	1938	337	70	0	275	mag,jas,ank,py	Au
15		122	1938	327	83	2	221	py,mag,jas,ank	Au
15		123	1938	333	80	0	290	py, mag, ank	Au
15		124	1938	169	45	0	45	py, mag	Au
15		125	1938	155	41	0	64	py, mag, jas	Au
15		126	1938	343	64	0	90.5	py, mag, jas	Au
15		127	1938	291	0	0	85	--	--
15		128	1938	248	15	0	110	py, jas	Au
15		129	1938	197	40	0	177.5	py, mag, jas	Au
15		130	1938	004	70	0	79	py, mag	Au
15		131	1938	321	60	0	314	py	Au
15		132	1938	338	70	5.5	350	jas, gt, py	Au
15		133	1938	334	84	3	662	py, jas, mag, ank, calc, cp	Au
15		134	1938	328	83	1	523	mag,jas,py,calc	Au
15		135	1938	171	72	0	29	py, mag, jas	Au
15		136	1938	150	66	0	25	py, mag, jas	Au
15		137	1938	342	60	2.1	380	mag, jas, calc	Au
15		138	1938	342	1	0	440.5	py, mag, jas	Au
15		139	1938	162	30	0	152	py,mag,jas,ank	Au

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
15	Consolidated Mining &	140	1938	323	37	0	217	py, mag, jas	Au
15	Smelting Co. of Canada Ltd.	141	1938	024	64	2.5	445	py, po, calc	Au
15	(cont'd)	142	1938	352	39	0	197	py,mag,jas,po	Au
15		143	1938	154	45	0	51	py, mag, jas	Au
15		144	1938	345	70	0	177	py	Au
15		145	1938	341	70	0	578	py,mag,jas,sp	Au
15		146	1938	340	55	0	128	py,mag,jas,ank	Au
15		147	1938	346	1	0	352	py, mag, jas, cp po, ank	Au
15		148	1938	341	85	0	374	py, mag, calc	Au
15		149	1938	161	85	0	362	py, mag, jas	Au
15		150	1938-39	341	50	0	311	py, mag, jas	Au
15		151	1939	342	85	0	345	py,mag,jas,ank	Au
15		152	1939	?	75	0	152	py, mag, jas	Au
15		153	1939	--	90	0	178	py, mag, jas	Au
15		154	1939	250	55	0	189	py, ank	Au
15		155	1939	342	70	1	42	py	Au
15		156	1939	340	72	0	81	py, po	Au
15		157	1939	335	81	1.5	130	py, ank	Au
15		158	1939	--	90	2	100	py, ank	Au
15		159	1939	321	0	0	156.5	py, ank, jas	Au
15		160	1939	340	0	0	30	S	Au
15		161	1939	339	12	0	77	py, po	Au
15		162	1939	358	64	0	79	py	Au
15		163	1939	173	45	0	38	py,mag,jas,ank	Au
15		164	1939	354	85	0	39	py, mag, ank	Au
15		165	1939	152	50	0	96	py,mag,jas,ank	Au
15		166	1939	345	45	0	71	py, mag	Au
15		167	1939	210	0	0	55	mag, jas	--
15		168	1939	217	0	0	25	py,ank,po,cp	Au
15		169	1939	141	0	0	23	py	Au
15		170	1939	--	90	0	71	py	Au
15		171	1939	147	80	0	75	py, ank	Au

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
15	Consolidated Mining &	172	1939	188	69	0	70	py	Au
15	Smelting Co. of Canada Ltd.	173	1939	151	40	0	280	py,mag,jas,calc	Au
15	(cont'd)	174	1939	328	180	0	150	--	--
15		175	1939	356	82	0	116	py, ank	Au
15		176	1939	165	81	0	250	py, mag, ank	Au
15		177	1939	--	90	0	181	py,mag,ank,jas,cp	Au
15		178	1939	335	71	0	184	py,mag,jas,ank	Au
15		179	1939	177	77	4.2	187	py, mag	Au
15		180	1939	158	77	2	380	py, ank	Au
15		181	1939	163	80	2	290	py,mag,jas,ank	Au
15		182	1939	160	50	0	131	py,mag,jas,ank	Au
15		183	1939	162	30	0	242	cp	Au
15		184	1939	162	48	0	75	py, mag, jas	Au
15		185	1939	342	84	3.2	274	py, mag, ank	Au
15		186	1939	359	0	0	27	py	Au
15		187	1939	161	80	1	87	py,mag,jas,ank	Au
15		188	1939	169	75	0	76	py, jas	Au
15		189	1939	355	78	0	292	py, mag, jas, cp	Au
15		190	1939	171	57	0	68	py,mag,jas,ank	Au
15		191	1939	168	85	0	78	py, po, ank	Au
15		193	1939	348	15	0	58	py	Au
15		194	1939	122	63	0	120	py, ank	Au
15		195	1939	145	20	0	46	py, ank	Au
15		196	1939	022	73	0	110	py, ank	Au
15		197	1939	164	79	1.3	247	py, ank	Au
15		198	1939	154	15	0	138	py, ank	Au
15		199	1939	344	72	0	81	py, ank	Au
15		200	1939	358	86	1.5	249	py, ank	Au
15		201	1940	163	11	0	27	py, ank	Au
15		202	1940	151	11	0	20	py	Au
15		203	1940	169	14	0	8	--	--
15		204	1940	173	5	0	56	py, ank	Au
15		205	1940	342	82	0	76	py, ank	Au

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
15	Consolidated Mining &	206	1940	182	48	0	19	py, ank	Au
15	Smelting Co. of Canada Ltd.	207	1940	--	90	0	106	py, ank	Au
15	(cont'd)	208	1940	166	64	0	113	py, ank	Au
15		209	1940	166	40	0	72	py	Au
15		210	1940	098	63	0	161	py, ank	Au
15		211	1940	337	74	0	100	py, gf	Au
15		212	1940	155	60	0	139	py, ank	Au
15		213	1940	348	73	0	65	py, ank	Au
15		214	1940	248	67	0	187	py, ank	Au
15		215	1940	346	65	1	66	py	Au
15		216	1940	--	90	0	237	py, ank	Au
15		217	1940	210	21	0	34	py, ank	Au
15		218	1940	328	?	1.4	312	py, ank, mag	Au
15		219	1940	191	65	0	73	py	Au
15		220	1940	349	76	1.4	120	py	Au
15		221	1940	339	69	0.5	71	py, ank	Au
15		222	1940	--	90	0	242	py, mag, jas	Au
15		223	1940	352	64	0	64	py, ank	Au
15		224	1940	062	70	0	35	py, ank	Au
15		225	1940	--	90	0	33	py, ank	Au
15		226	1940	345	68	0	179	py, ank	Au
15		227	1940	339	62	0	155	py, ank	Au
15		228	1940	346	71	0	45	py, ank	Au
15		229	1940	035	70	0	45	py, ank	Au
15		230	1940	158	57	0	43	py, ank	Au
15		231	1940	068	62	0	50	py	Au
15		232	1940	351	0	0	104	py	Au
15		233	1940	150	62	0	116	py, mag, jas	Au
15		234	1940	130	76	0	112	py	Au
15		235	1940	155	58	0	86	py, mag, jas	Au
15		236	1940	167	81	9	411	py, ank	Au
15		237	1940	153	82	1	350	py	Au
15		238	1940	154	81	3	408	py	Au

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
15	Consolidated Mining &	239	1940	155	82	1.2	390	mag, jas	--
15	Smelting Co. of Canada Ltd.	240	1940	150	82	3.5	294	mag	--
15	(cont'd)	241	1941	092	0	0	190	py, ank	Au
15		242	1941	--	90	1.5	233	py	Au
15		243	1941	--	90	1.5	248	py, ank	Au
15		244	1941	162	0	0	68	py, ank	Au
15		245	1941	341	0	0	48	mineralization	--
15		246	1941	341	62	0	125	py, ank	Au
15		248	1941	348	38	2	127	py, mag, ank	Au
15		249	1941	148	55	0	60	py	Au
15		250	1941	165	0	0	125	jas	--
15		251	1941	167	0	0	56	py	Au
15		252	1941	165	0	0	124	py, ank	Au
15		253	1941	160	0	0	190	jas	--
15		254	1941	162	0	0	57	py	Au
15		255	1941	161	0	0	102	py, jas	Au
15		256	1941	163	0	0	116	py, jas	Au
15		257	1941	162	0	0	193	py, jas	Au
15		258	1941	160	60	0	215	py	Au
15		259	1941	163	0	0	66	py	Au
15		260	1941	162	0	0	149	py, ank, jas	Au
15		261	1941	158	0	0	107	py	Au
15		262	1941	159	0	0	126	py	Au
15		263	1941	159	0	0	46	py	Au
15		264	1941	166	85	2	228	py, ank	Au
15		265	1941	166	0	0	125	py	Au
15		266	1941	168	0	0	183	py, ank	Au
15		267	1941	168	10	0	100	--	--
15		268	1941	342	7	0	284	py	Au
15		269	1941	339	0	0	253	py	Au
15		270	1941	339	14	0	262	py	Au
15		271	1941	339	15	0	270	py	Au
15		272	1941	336	0	0	200	--	--

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
15	Consolidated Mining &	273	1941	158	0	0	138	--	--
15	Smelting Co. of Canada Ltd.	274	1941	164	0	0	76	py, ank	Au
15	(cont'd)	275	1941	341	40	0	97	py, ank	Au
15		276	1941	341	36	0	66	py, ank	Au
15		277	1941	163	0	0	101	py, ank	Au
15		278	1941	340	0	0	198	--	--
15		279	1941	338	0	0	179	--	--
15		280	1941	339	0	0	289	py	--
15		281	1941	162	0	0	99	py, ank	Au
15		282	1941	342	0	0	67	py, ank	Au
15		283	1941	163	0	0	75	--	--
15		284	1941	162	0	0	113	py	Au
15		285	1941	345	0	0	196	py	--
15		286	1941	345	25?	0	248	py	Au
15		287	1941	342	0	0	219	py	Au
15		288	1941	341	0	0	202	--	--
15		289	1941	160	0	0	139	py	Au
15		290	1941	164	0	0	130	py, ank	Au
15		291	1941	154	0	0	79	py, ank	Au
15		292	1941	164	0	0	48	--	--
15		293	1941	344	0	0	35	--	Au
15		294	1941	164	0	0	96	--	--
15		295	1941	364	0	0	23	--	--
15		296	1941	162	0	0	98	--	--
15		297	1941	162	0	0	91	--	--
15		298	1941	162	0	0	66	py, ank	Au
15		299	1941	162	45?	0	71	py	Au
15		300	1941	163	0	0	183	py, ank	Au
15		301	1941	363	75?	1.5	76	--	--
15		302	1941	362	62?	0.5	220	py, ank	Au
15		303	1941	154	17	1	542	--	--
15		304	1941	342	65	0.5	99	py, ank	Au
15		305	1941	--	90	1	266	py, ank	Au

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
15	Consolidated Mining & Smelting Co. of Canada Ltd. (cont'd)	306	1941	162	48?	1	139	py, ank	Au
15		307	1941	166	69	1.5	540	py, ank	Au
15		308	1941	154	61?	0	219	py, ank	Au
15		309	1941	342	?	0	75	py	Au
15		310	1941	162	45	2	68	py, ank	Au
15		311	1941	158	64	0	141	py, ank	Au
15		312	1941	327	?	0	41	S	Au
15		313	1941	147	?	0	25	py, ank	Au
15		314	1941	142	49	0	21	py	Au
15		315	1941	081	45	0	100	py, ank	Au
15		316	1941	261	?	0	100	py, ank	Au
15	Afton Mines Ltd.	?	1927-28	3 holes drilled--total length 2669'					
15	Emerald Lake Resources Inc.	1	1982-83	?	45	?	?	?	Au
15		2	1982-83	?	45	?	?	?	Au
15		3	1982-83	?	45	?	?	?	Au
15		4	1982-83	?	45	?	?	?	Au
15		5	1982-83	?	52	?	?	?	Au
15		6	1982-83	?	55	?	?	?	Au
15		7	1982-83	?	45	?	?	?	Au
15		8	1982-83	?	48	?	?	?	Au
15		9	1982-83	?	48	?	?	?	Au
15		10	1984	?	45	?	?	?	--
15		11	1984	?	45	?	?	?	Au
15		12	1984	?	50	?	?	?	Au
15		13	1984	?	45	?	?	?	Au
15		14	1984	?	45	?	?	?	Au
15		15	1984	?	45	?	?	?	Au
15		16	1984	?	48	?	?	?	Au
15		17	1984	?	45	?	?	?	Au
15		18	1984	?	50	?	?	?	--
15		19	1984	?	55	?	?		

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
15	Emerald Lake Resources Inc.	20	1984	?	48	?	?	?	--
15	(cont'd)	21	1984	?	55	?	?	?	Au
15		24	1984	?	45	?	?	?	Au
15		25	1984	?	46	?	?	?	Au
15		26	1984	?	48	?	?	?	Au
15		27	1984	?	?	?	?	?	--
15		28	1984	?	53	?	?	?	Au
15		29	1984	?	55	?	?	?	Au
15		30	1984	?	53	?	?	?	Au
15		31	1984	?	45	?	?	?	Au,Ag,Cu ,Zn
15		33	1984	?	?	?	?	?	Au,Ag,Cu ,Zn
15		36	1985	?	50	?	?	?	Au
15		37	1985	?	54	?	?	?	Au
15		38	1985	?	52	?	?	?	Au
15		39	1985	?	48	?	?	?	Au
15		40	1985	?	52	?	?	?	Au
15		42	1984	?	?	?	?	?	Au,Ag,Cu ,Zn
15		43	1984	?	?	?	?	?	Au,Ag,Cu ,Zn
15		44	1984	?	?	?	?	?	Au,Ag,Cu , Zn
15		46 to 49	No data						
16	Consolidated Mining &	28	1935	192	5	0	75	py	Au
16	Smelting Co. of Canada	29	1935	161	10	0	42.5	mag	
16	Ltd.	30	1935	?	?	0	120.5		
16		31	1935	161	8	0	107	mag,jas,py,ank	Au
17	Wabico Mines Ltd.	W-1	1962	0	20	1.6	164	py, cp	--
18		WA-1	1956	180	45	40	750	py, po, cp, ep	--
18		WA-2	1956	180	45	12	900	po, py, sp	--
18		WA-3	1956	203	45	12	173	ep, po, py	--
18		WA-4	1956	250?	No log				
18		WA-5	1956	009	45	20.5	454	cp, py, po, asp	--
18		WA-6	1956	360	45	6	337	py, po, cp	--
18		WA-7	1956	--	90	8	254	py, po, cp	--

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
				Degrees	Deg.	Feet	Feet		
18	Abex Mines Ltd.	9	1953	?	45	16	130	py, po, cp	
18		10	1953	?	60	20	187	py	
18		11	1953	?	45	8	533		
19	Abex Mines Ltd.	13	1953	152	45	8	344		
20		5	1954	360	45	22	303	po, cp, py	
21		2	1953	345	?	6	253	py, gf	
22		1	1953	?	45	12	254	--	
22		3	1953	?	45	8	250	--	
22		4	1953	357	45	6	303	--	
23	X-Ray Prospecting Syndicate	?	1946	X-Ray drillholes--No logs					

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
8	Mining Geophysics Corp. Ltd. Dominion Gulf Co.	Airborne Magnetometer	500 ft	N/S	--
29	Terraquest Ltd. Emerald Lake Resources Inc.	Airborne Magnetometer Airborne Electromagnetometer	100 m	350°	100 m

GDIF FORM NO. 4

AFTON TOWNSHIP

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference
1	Soil Sampling	Heavy Metals	Wabico Mines Ltd.	Afton 0017-A1

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

GDIF FORM NO.6

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

Emerald Lake Resources Inc. (Golden Rose Mine)

Northern Miner	October 19, 1987
	October 12, 1987
	June 8, 1987
	November 17, 1986
	July 21, 1986
	January 27, 1986
	November 18, 1985
	October 28, 1985
	June 20, 1985
	April 18, 1985
	February 7, 1985
	January 3, 1985
	December 6, 1984
	August 19, 1984
	August 30, 1984
George Cross News Letter	February 12, 1987
	February 5, 1987
	November 6, 1986
	July 29, 1986
	July 10, 1986
	July 8, 1986
	May 8, 1986
	May 7, 1986
	January 27, 1986
	November 22, 1985
	October 11, 1985
	September 10, 1985
	August 13, 1985
	April 30, 1985
	April 22, 1985
	April 3, 1985
	March 28, 1985
	January 30, 1985
	December 18, 1984
	December 7, 1984
	November 22, 1984
	November 19, 1984
	November 7, 1984
	August 17, 1984
Northern Daily News	March 31, 1987
Canadian Mining Journal	December 1984, p. 17

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

New Golden Rose Mines

Sudbury Star	August 25, 1939
	May 22, 1939
	April 24, 1939
	November 23, 1939
	October 31, 1938
	September 23, 1938
	August 3, 1938
	June 20, 1938
	May 27, 1938
	May 4, 1938
	April 27, 1938
	April 11, 1938
	October 20, 1938
	October 26, 1936
	September 16, 1936

Golden Rose Mining Co. Ltd.

Sudbury Star	May 18, 1922
	April 26, 1916
Sudbury Journal	January 27, 1910

Evans, Arthur & Kibble, J.

Sudbury Journal	October 27, 1898

GDIF FORM NO. 7

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

GDIF FORM NO. 7

ODM GENERAL INDEX SEARCH

Words searched:

ABEX MINES LTD.
AFTON MINE
AFTON TOWNSHIP
AUMACHO RIVER MINES LTD.
CHURCH, T. M.
CONSOLIDATED MINING & SMELTING CO. OF CANADA LTD.
DOMINION GULF CO.
EMERALD LAKE
EMERALD LAKE RESOURCES INC.
EMERALD MINING SYNDICATE
GEOSCIENTIFIC PROSPECTORS LTD.
GOLDEN ROSE MINE

Index Volume	Listing:	Report Volume	Part	Page
1	Emerald Lake, Afton Tp.			
	Auriferous sulphides of iron	N.O.		88
	Dolomite	10		169
		20	2	15
		21	1	216
		24	3	17
	Gold	N.O.		112
		10		175
	Iron ore on and near	10		201
		14	1	315
		17		22
	jaspilite	10		175
	Marl	14	1	122
	analysis	13	2	88
	Notes by Barlow	13	2	87
	Quartz, assay	N.O.		112
	Trees	N.O.		91
1	Emerald Lake, Temagami Forest Reserve			
	Gold mining near	25	1	103
1	Golden Rose Gold Mine, Emerald Lake			
	Work at (1915)	25	1	103
1	Golden Rose Mining Co.			
	Capital and date of charter	19	1	48
	Officers of	25	1	103
1	Plum Creek, Plum Lake, Afton Tp.	N.O.		85
2	Emerald Lake, Afton Tp.			
	Area	35	6	58
	Iron formation	I.O.		214
2	Emerald Lake Gold Mines Ltd.			
	Capital and date of charter	34	1	55
	Employees, number of	35	1	8
2	Golden Rose Gold Mine, Emerald Lake, Sud.			
	Location, map showing, facing	30	2	18
	Operations	26		89,90
	Producing (1915-16) copper pyrites	30	2	20
2	Golden Rose Mining Co.			
	Liquidation	32	6	28

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

GOLDEN ROSE MINING CO. LTD.
HIGHLAND CROW RESOURCES INC.
JOBURKE GOLD MINES LTD.
LEGER, LLOYD
LEGER MINES LTD.
NEW ATHONA MINES LTD.
NEW GOLDEN ROSE MINES
PLUM CREEK
TEMEX MINES LTD.
TOWNSEND-ANNIS GOLD PROPERTIES
WABICO MINES LTD.
X-RAY PROSPECTING SYNDICATE

Index Volume	Listing:		Report Volume	Part	Page
3	Afton Gold Mine, Afton Tp.				
	Operations (1927)		37	1	85
	(1934)		44	1	85
	(1935)		45	1	96
3	Afton Mines Ltd.				
	Capital and officers		37	1	85
	Incorporated		37	1	57
	Shares in New Golden Rose Mines		45	1	96
3	Afton-Scholes Area, Sud.				
	Report on, by E. S. Moore		45	6	38-48
3	Consolidated Mining & Smelting Co. of Canada Ltd.				
	Gold claims, Afton-Scholes area		45	6	48
	Option: Afton Gold Mine		44	1	85
3	Emerald Lake, Afton Tp.				
	Gold discovery		45	6	38
	Rocks		45	6	40-45
	diabase sill, photo		45	6	43
	sketch map	facing	45	6	40
3	New Golden Rose Gold Mine, Afton Tp.				
	Accident rate (1937)		47	1	255
	(1938)		48	1	245
	(1939)		49	1	248
	Fire in plant		48	1	247
	Geology and workings		45	6	46-48
	Mill, capacity (1939)		49	1	26
	Operations (1936)		46	1	118
	(1937)		47	1	108
	(1938)		48	1	99
	(1939)		49	1	105
	Plant, photo		45	6	46
	Production (1937)	facing	47	1	10
	(1938)	facing	48	1	10
	(1939)	facing	49	1	12
3	New Golden Rose Mines Ltd.				
	Capital, officers, operations				
	(1936)		46	1	184
	(1937)		47	1	179
	(1938)		48	1	171
	(1939)		49	1	176
	Incorporated		45	1	53

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
4	Afton Mines Ltd.			
	Gold production (1935)	58	1	TABLE V
4	Consolidated Mining & Smelting Co. of Canada Ltd.			
	New Golden Rose Gold Mine			
	acquired by	58	1	20
4	New Golden Rose Gold Mine, Afton Tp.			
	Acquired by Consol. Mg and Smelting Co.	58	1	20
	Mill capacity	52	1	24
	Operations (1940)	50	1	29
	(1941)	51	1	93
	Production (1940) facing	50	1A	8
	(1941) facing	51	1	16
	(1943) facing	53	1	10
	(1944) facing	54	1	10
	statistics (to 1949)	59	1	TABLE IV
4	New Golden Rose Mines Ltd.			
	Capital; officers (1940)	50	1	100
	(1941)	51	1	165
	Liquidation	51	1	94
5	Abex Mines Ltd.			
	Incorporated	61	1	46
5	Aumacho River Mines Ltd.			
	Change of name	63	1	60
5	Geoscientific Prospectors Ltd.			
	Incorporated	62	1	60
5	New Athona Mines Ltd.			
	Change of name	64	1	60
5	New Golden Rose Gold Mine, Afton Tp.			
	Production statistics	64	1	18
5	Wabico Mines Ltd.			
	Incorporated	62	1	59
6	Temex Mines Ltd.			
	Incorporated	66	1	34
7	Wabico Mines Ltd.			
	Afton Tp.	MRC 2		102

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	Afton & MacBeth Tps., Sudbury Dist.			
	Summary of field work, 1972 by H. D. Meyn	MP 53		126-129
8	Afton Tp., Sudbury Dist.			
	Copper/cobalt	MRC 12		229
	Iron	MRC 11		324
8	Emerald Lake			
	Afton Tp., Sudbury Dist.	MP 53		128
8	Emerald Lake Prospect			
	Afton Tp., Sudbury Dist.			
	mining property, report on	MRC 11		324
		MRC 12		229
8	New Golden Rose Mine			
	Afton Tp., Sudbury Dist.	MP 53		128
9	Abex Mines Ltd.			
	Afton Tp., Sudbury Dist.			
	report on New Golden Rose Mine	GR 170		46-50
9	Afton, Scholes, MacBeth & Clement Tps., Sudbury & Nipissing Dist.			
	Base metals	GR 170		58-67
	Geology of the area			
	report & maps 2385 & 2386, 1977 by H. D. Meyn	GR 170		
	Gold	GR 170		46-55
	Iron	GR 170		55-58
	Sand/gravel	GR 170		67-68
	Altaite	MP 70		26
	Gold	MDC 18		48
		MP 70		181
	Placer gold	MDC 17		177

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Card, K. D., Lumbers, S. B.	1977	Sudbury-Cobalt Sheet	OGS Map 2361	1" = 4 miles
Meyn, H. D.	1966	Capreol Sheet	OGS Map P.367	1" = 2 miles
	1973	Afton Township	Map P.833	1" = ¼ mile
		GEOPHYSICAL MAPS		
ODM-GSC	1965	Aeromagnetic Map - Lake Temagami Sheet	1502G	1" = 1 mile
G.H.D. Consultants	?	Aeromagnetic Map - Sudbury Research Project	Map 3	1" = ½ mile
Gupta, V. K., Wadge, D. R.	1980	Bouguer Gravity and Generalized Geological Map, North Bay - Marten River Area	OGS Map P.2297	1:100,000
ODM-GSC	1965	Aeromagnetic Map - Sudbury Sheet	7067G	1" = 4 miles
OGS-GSC	1976	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey, Sudbury	Map P.1610	1:250,000
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
Dept. of E.M.R.	1975	Topographic Map - Lake Temagami		1:50,000
Gartner, J. F.	1980	N.O.E.G.T.S. Data Base Map - Capreol N.O.E.G.T. Study 95 Capreol	Map 5001	1:100,000
		GEOLOGICAL REPORTS AND MAPS		
Adlington, R.	1982	Afton Township, Sudbury Data Series	OGS Map P.2188	1" = ¼ mile

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Ferguson, S. A., Freeman, E. B.	1978	Ontario Occurrences of Float, Placer Gold and Other Heavy Minerals	MDC 17	p. 177
Gordon, J. B. et al	1979	Gold Deposits of Ontario, Part 2	MDC 18	p. 48
Meyn, H. D.	1976	Geology of Afton, Scholes, MacBeth and Clement Townships	OFR 5184	
	1977	Geology of Afton, Scholes, MacBeth and Clement Townships	GR 170 Map 2385	1" = ½ mile
Moore, E. S.	1936	Geology of the Afton-Scholes Area	AR Vol. 45, pt. 6	pp. 38-48
Robertson, J. A. et al	1957	Copper, Nickel, Lead and Zinc Deposits in Ontario	MRC 2	p. 102
Shklanka, R.	1968	Iron Deposits of Ontario	MRC 11	p. 324
	1969	Copper, Nickel, Lead and Zinc Deposits of Ontario	MRC 12	p. 229
Wilson, W. J.	1905	The Region Between Lake Temagami and Spanish River	GSC Sum. Rept.	pp. 82-84
		JOURNALS, ARTICLES, THESES, TECHNICAL REPORTS		
Boissonneau, A. N.	1968	Glacial History of Northeastern Ontario II. The Timiskaming-Algoma Area	C.J.E.S., Vol. 5	pp. 97-109
Ferguson, S. A.	1942	Banded Iron Formation of the Temagami Area, Ontario; M.A., University of Toronto	MP-2	
Gole, M. J., Klein, C.	1981	Banded Iron Formations Through Much of Precambrian Time	Jour. of Geol., Vol. 89	pp. 169-183
Gross, G. A.	1980	A Classification of Iron Formations Based on Depositional Environments	Canadian Mineralogist, Vol. 18	pp. 215-222

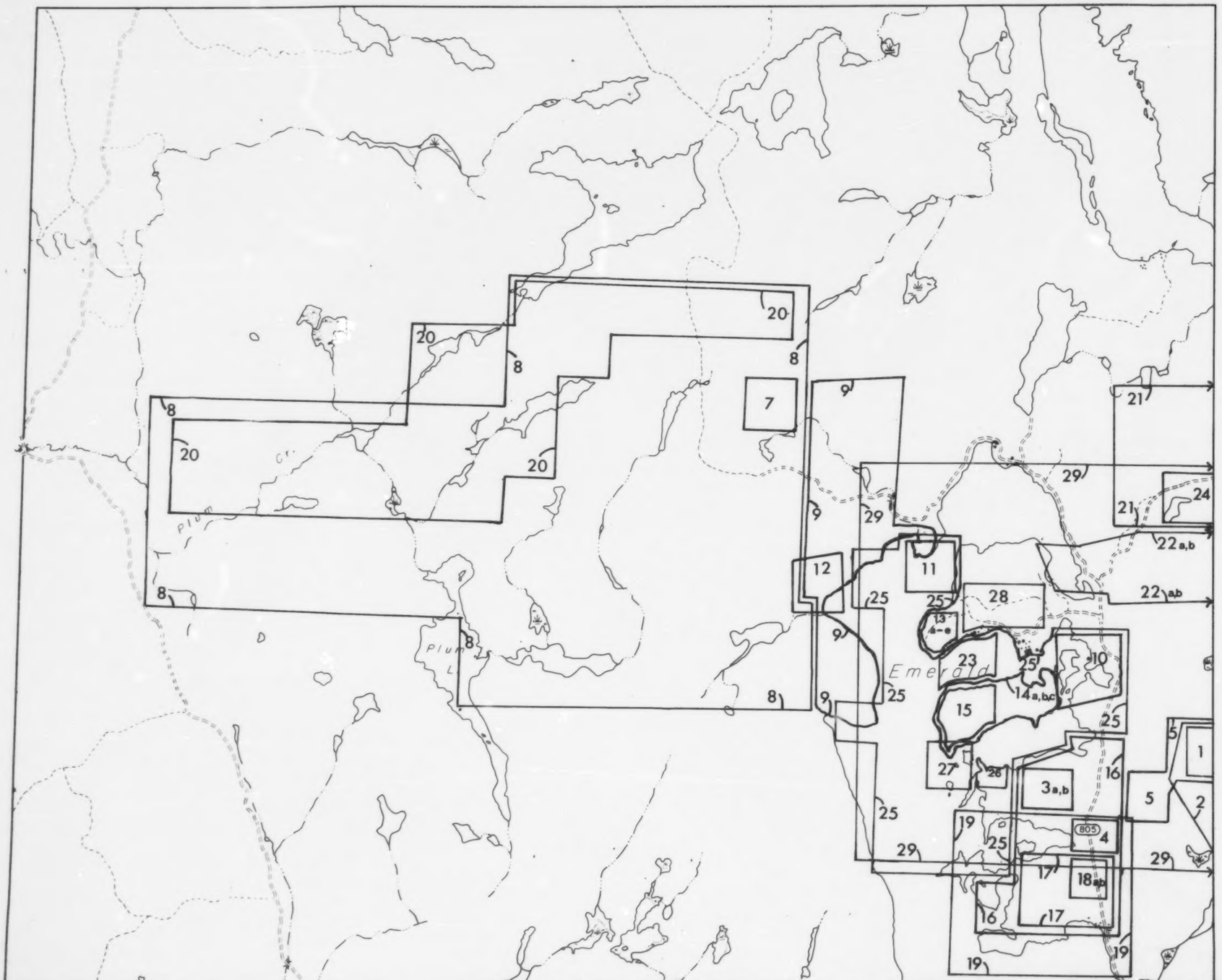
SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Lindsey, D. A.	1969	Glacial Sedimentology of the Precambrian Gowganda Formation, Ontario, Canada	GSA Bull. 80	pp. 1685-1702
Milne, V. G., Hewitt, D. F.	1972	Summary of Field Work, 1972, by the Geological Branch	ODM MP 53	
Mossman, D. J., Harron, G. A.	1984	Witwatersrand-Type Paleoplacer Gold in the Huronian Supergroup of Ontario	Precambrian Research, Vol. 11, #1	
Schwerdtner, W. M.	1985	Preliminary Estimates of the Amount of Continuous Horizontal Shortening Across an Archean Greenstone Belt	C.J.E.S., Vol. 22	pp. 506-513
Tagseth, E. A.	1958-59	A Study of Rocks of the Cobalt Series; B.Sc., University of Toronto	MP-2	

NOTES AND ADDENDA

GDIF FORM NO.10

1 of 2



Ontario

Ministry of Northern Development and Mines

Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO **458**

(Map 1 of 2)

AFTON TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

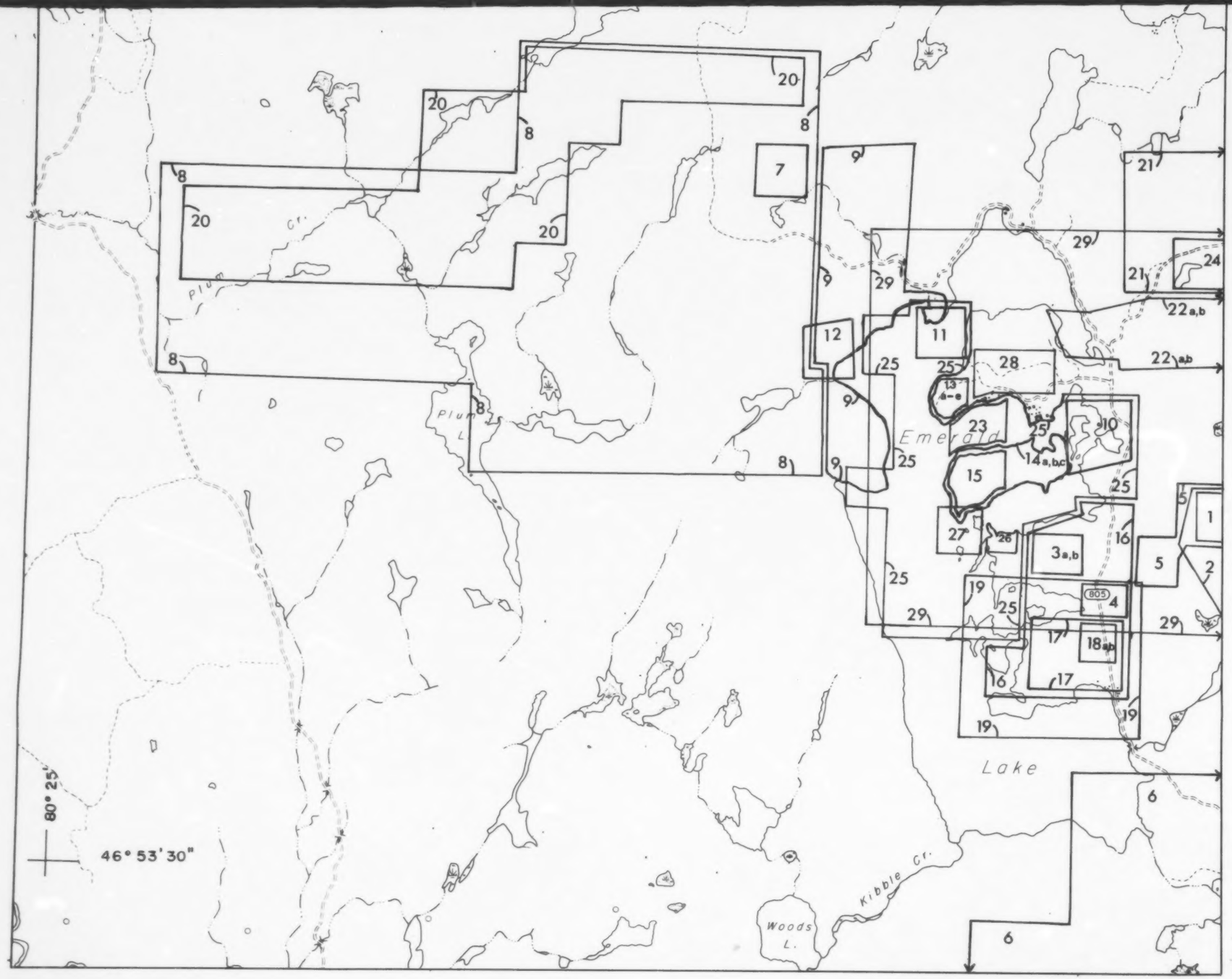
Mile 0.5 0 0.5 1 Mile

AFTON TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile



EXPLORATION DATA FILE AREAS

- Reference number is always inside work area outlined. See listing in text pages.
- Small area of exploration
- File covers whole township or area

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

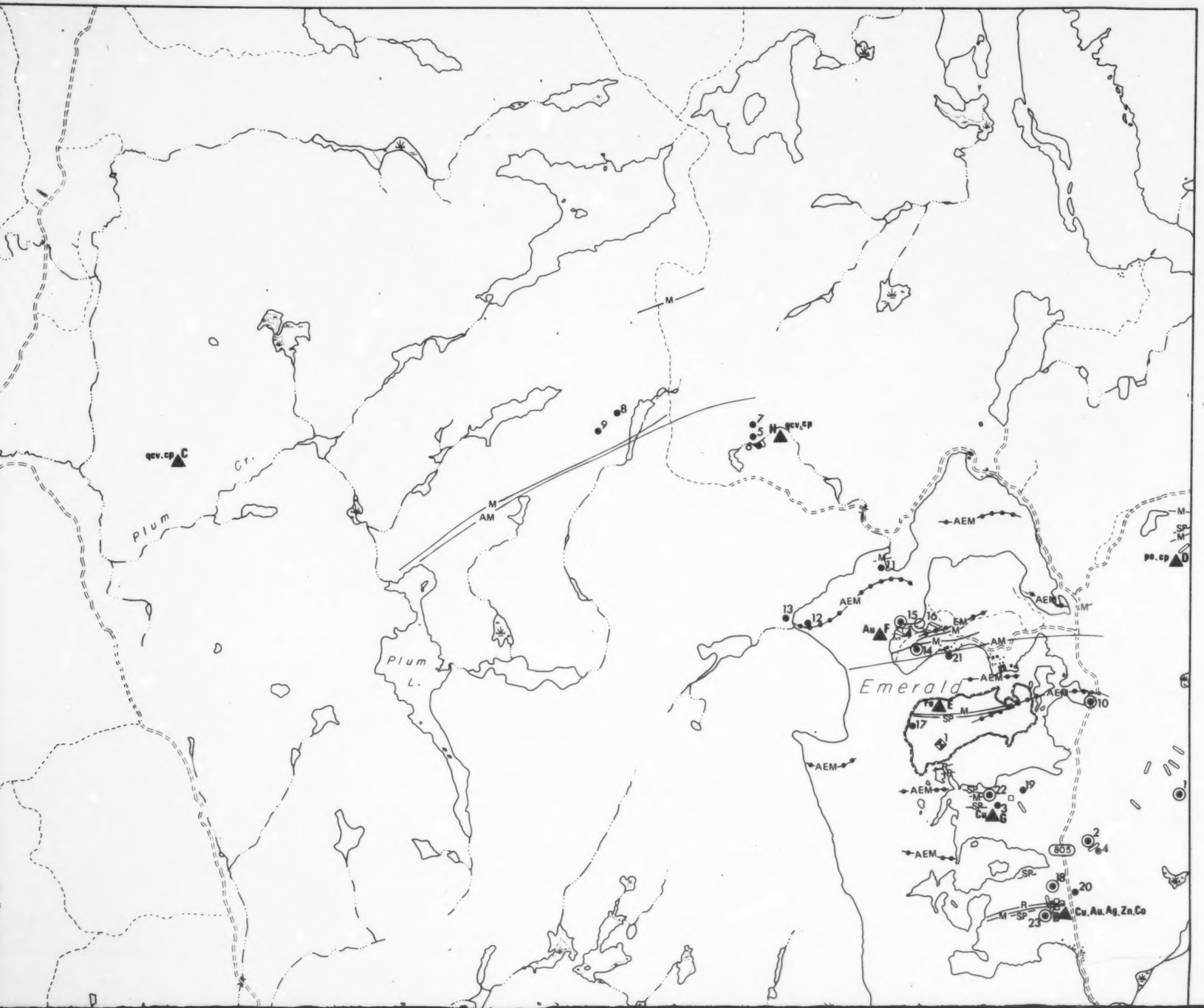
GEOPHYSICAL ANOMALIES

- AM — Airborne magnetic anomaly
- Airborne electromagnetic anomaly Length of anomaly along flight line
- AEM — Airborne electromagnetic anomaly
- Airborne electromagnetic anomaly Conductor axis
- ARA — Airborne radiometric anomaly
- M — Ground magnetic anomaly
- VL — Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop VLF - Very low freq.; Turam; JEM - Crone Em - 16; EM - Undefined)
- RA — Ground radiometric anomaly
- IP — Induced polarization anomaly
- SP — Self potential anomaly
- AFMAG — Audio-freguency magnetic anomaly (total intensity)
- R — Resistivity anomaly
- GR — Gravity anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Rock quarry

2012



Ministry of Northern Development and Mines

Mines and Minerals Division

Ontario

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 458

(Map 2 of 2)

AFTON TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84° — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter
- A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- 2 — Location of single drillhole, with reference number
- 2 — Location of closely spaced group of drillholes, with

GEOPHYSICAL ANOMALIES

- AM — Airborne magnetic anomaly
- Airborne electromagnetic anomaly Length of anomaly along flight line
- AEM — Airborne electromagnetic anomaly
- Airborne electromagnetic anomaly Conductor axis
- ARA — Airborne radiometric anomaly
- M — Ground magnetic anomaly
- VL — Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop VLF - Very low freq.; Turam; JEM - Crone Em - 16; EM - Undefined)
- RA — Ground radiometric anomaly
- IP — Induced polarization anomaly
- SP — Self potential anomaly
- AFMAG — Audio-freguency magnetic anomaly (total intensity)
- R — Resistivity anomaly
- GR — Gravity anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Adit
- Open pit
- Rock quarry
- Sand and/or gravel pit
- Shaft

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

AFTON TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- ■ cp ▲ A. — Mineral occurrence at surface, with reference letter
- □ Au ◪ A. 84' — Mineral occurrence with shaft, depth given with reference letter
- □ Ag △ A. — Mineral occurrence reported but exact location uncertain, with reference letter
- □ cp ▬ A. — Mineralized float with reference letter
- □ △ A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- ■ ●² — Location of single drillhole, with reference number
- ■ ◉² — Location of closely spaced group of drillholes, with reference number
- □ (?)² — Drillhole, exact location uncertain, with reference number
- ■ ◡ — Property with underground drillholes in this general area, with reference number
- □ ○² — Property with drillholes which have not been plotted on map, with reference number
- □ ⊕² — Reverse circulation drillhole; churn drilling, with reference number